KIDMAN 1636.
A NEW ALMANACK for the yeare of our Lord God 1636.

¶ Being the leap-yeare, and after the 27 of *March* the 12 yeare of the reigne of our Soveraigne Lord king *Charles*.

¶ Amplified with things usefull, as well profitable as pleasant for all sorts of men.

Calculated, and properly referred to the meridian and latitude of Saffron-Walden *in* Essex, *where the pole is elevated above the horizon* 52 *degrees, and may without sensible errour serve any part of this kingdome of* ENGLAND.

By Thomas Kidman.

Printed by the Printers to the *Universitie* of *Cambridge*.

According to the forein account.		According to our English account.
3	The golden number	3
21	The cycle of the Sunne	21
f E	The Dominicall letters	E B
23	The Epact	3

The reſt are in the Kalender, as alſo in a table at the end of the book.

A brief Chronologie of ſome memorable things.

The creation of the world	5585
The floud of Noah	3929
The building of the Temple	2653
Brute entered this Iſland	2743
Jeruſalem deſtroyed by Tytus Veſpaſian	1553
Julius Ceſar conquered this Iſland	1687
Julius Ceſar reformed the yeare	1680
England firſt received the Chriſtian faith	1456
The conqueſt by Duke William	570
The building of Weſtminſter-hall.	536
The invention of gunnes firſt in Almayn	255
Printing of books was firſt invented in Germany	176
Martin Luther began to oppoſe the Pope	119
The earls rebellion in the north parts	67
The generall earthquake in England April 6	55
Tilbury camp in Eſſex on S. James Day	48
The birth of King Charles the 19 of November	36
The laſt blazing ſtarre	18
King Charles return from Spain October 5	13
His Majeſties reigne began March 27	11
The birth of prince Charles May 29	6

THE
Anatomie of Mans bodie, as the parts thereof are by Astrologers attributed unto the 12 signes of the Zodiack.

♈ Head and face.

♉ Neck and throat.

♋ Breast, stomack, & ribs.

♍ Bowels and belly.

♏ Secret members.

♐ Knees.

♊ Arms and shoulders.

♌ Heart and back.

♎ Reines and loyns.

♐ Thighes.

♒ Legs.

♓ The feet.

Characters of the seven Planets with their aspects.

♄ Saturn. ♃ Jupiter. ♂ Mars. ☉ The Sunne. ♀ Venus. ☿ Mercury. ☽ ● The Moon. ☌ Conjunction. ☍ Opposition. □ Quadrate. ⚹ Sextile. △ Trine.

Times prohibiting Marriage this yeare 1636.

From the 28 of *November* 1635, till the 13 of *January* following.

From the 13 of *February* till the 25 of *April*.

From the 21 of *May* till the 13 of *June*.

Also from the 26 of *November* untill the 13 of *January* 1637.

Januarie hath xxxi dayes.

☽ First quarter the 5 day, 17 m. past 10 in the morning.
● Full moon the 12 day, 35 min. past 7 in the morning.
☾ Last quarter the 20 day, 29 min. past 4 in the morning.
● New moon the 27 day, 7 min. past 10 at night.

1	a	Circumcision	pisces	0	7	17	10	45	2	Horlus	20	11	d
2	b	Oct. Steph.	pisces	14	7	40	10	41	2		16	12	e
3	c	2. Sun. af. Chr.	pisces	28	8	2	10	37	2		12	13	f
4	d	Telesphorus	Aries	12	8	25	10	33	2		8	14	g
5	e	Simeon	aries	26	8	47	10	29	2		5	15	a
6	f	Epiphanie	taur.	10	9	9	10	25	2		1	16	b
7	g	Julian mart.	taur.	24	9	31	10	21	1		57	17	c
8	a	Lucian prieſt	gem.	8	9	53	10	17	1		54	18	d
9	b	Marcellinus	gem.	23	10	15	10	13	1		50	19	e
10	c	Sun in Aquar.	canc.	7	10	37	10	9	1		46	Septu	
11	d		canc.	21	10	58	10	5	1		42	21	g
12	e	Archad	leo	4	11	20	10	1	1		38	22	a
13	f	Hilarie bish.	leo	18	11	41	9	57	1		35	23	b
14	g	Felix & Jam.	virg.	1	12	2	9	53	1		31	24	c
15	a	Maurus	virg.	14	12	23	9	49	1		27	25	d
16	b	Marcellus	virg.	26	12	44	9	46	1		23	26	e
17	c	2. Sun. aft. Ep.	libra	8	13	4	9	42	1		19	27	f
18	d	Peters chair	libra	20	13	24	9	38	1		15	28	g
19	e	wolstan	scorp.	2	13	44	9	34	1		11	29	a
20	f	Oct. Hilar.	scorp.	14	14	4	9	30	1		7	30	b
21	g	Agnes virg.	scorp.	26	14	23	9	27	1		3	31	c
22	a	Vincentius	sagit.	8	14	43	9	23	1		0	FEBR.	
23	b	Term begins	sagit.	20	15	2	9	19	0		56	Purif.	
24	c	3. Sun. aft. Epip.	capr.	2	15	21	9	15	0		52	3	f
25	d	Conver. S. Paul	capr.	15	15	39	9	12	0		48	4	g
26	e	Policarp	capr.	28	15	58	9	8	0		44	5	a
27	f	Quind. Hilar.	aquar.	12	16	16	9	4	0		40	6	b
28	g	Sun eclipsed	aquar.	26	16	34	9	1	0		36	7	c
29	a	the 27 day.	pisces	10	16	51	8	57	0		32	8	d
30	b	Batild queen	pisces	24	17	8	8	54	0		28	9	e
31	c	4. Sun. aft. Epip.	Aries	8	17	25	8	50	0		24	10	f

Februarie hath xxix dayes.

☽ First quarter the 3 day, 3 min. past 6 at night.
● Full moon the 10 day, 46 min. past 10 at night.
☾ Last quarter the 18 day, 53 min. after midnight.
● New moon the 26 day, 25 min. past 10 in the morn.

		Holy and festivall dayes.	The moons place.	Suns declinatiō		Dayes length.		7 starres South.		Rom. Kale.	
1	d	Bridget Fast	Aries 23	14	4	9	30	5	after 45	11	g
2	e	Purif. of Mary	taur. 7	13	44	9	34	5	41	12	a
3	f	Craft. Purific.	taur. 21	13	24	9	38	5	39	13	b
4	g	Gilbert	gem. 5	13	3	9	42	5	noon 34	14	c
5	a	Agath. virg.	gem. 19	12	43	9	46	5	30	15	d
6	b	Dorothie	canc. 3	12	22	9	50	5	26	16	e
7	c	5 Sun. aft. Epip.	canc. 16	12	1	9	54	5	22	17	f
8	d	Paul bish.	leo 0	11	40	9	58	5	18	18	g
9	e	Sun in Pisces	leo 13	11	19	10	1	5	14	19	a
10	f	● Eclipsed vis.	leo 26	10	57	10	5	5	11	20	b
11	g	Eustacia	virg. 9	10	36	10	9	5	7	21	c
12	a	Term ends	virg. 21	10	14	10	13	5	3	22	d
13	b	Agabus	libr. 4	9	52	10	17	4	59	23	e
14	c	Valentine	libr. 16	9	30	10	21	4	55	24	f
15	d	Faustinus	libr. 28	9	7	10	25	4	52	vi. tth	
16	e	Julian virg.	scorp. 10	8	45	10	29	4	48	26	g
17	f	Policron	scorp. 22	8	22	10	33	4	44	27	a
18	g	Simeon bish.	sag. 4	8	0	10	37	4	40	28	b
19	a	Gabinus	sag. 16	7	37	10	41	4	37	29	c
20	b	Wilfred	sag. 28	7	14	10	45	4	34		
21	c	Sexagesima	capr. 10	6	51	10	49	4	30	2	d
22	d	Cath. Pet.	capr. 23	6	28	10	53	4	26	3	e
23	e	Policarp.	aquar. 6	6	5	10	57	4	23	4	f
24	f	Fast	aquar. 20	5	42	11	1	4	19	5	g
25	g	Matthias Apo.	pisc. 4	5	19	11	5	4	15	6	a
26	a	Winwin.	pisc. 18	4	55	11	9	4	12	7	b
27	b	Nestor bish.	Aries 3	4	32	11	13	4	8	8	c
28	c	Shrove-sund.	aries 18	4	8	11	18	4	4	9	d
29	d	Roman abbot.	taur. 3	3	45	11	22	4	0	10	e

March hath xxxi dayes.

☽ First quarter the 4 day, 56 min. past 1 in the morning.
● Full moon the 11 day, 50 min. past 2 in the afternoon.
☾ Last quarter the 19 day, 43 min. past 6 at night.
● New moon the 26 day, 50 min. past 7 at night.

1	D	David bishop	taur.	17	3	21	11	27	3	after	11	g
2	E	Ashwednesday	gem.	22		57	11	30	3	noon	12	a
3	F	Maurice	gem.	16	2	34	11	34	3	49	13	b
4	G	Dzian	cancer	0	2	10	11	38	3	46	14	c
5	A	Eusebius	cancer	13	1	46	11	42	3	42	15	d
6	B	Quadragesima	cancer	26	1	23	11	46	3	38	16	e
7	C	Thom. Aquin.	leo	10	0	59	11	50	3	35	17	f
8	D	Felix bishop	leo	23	0	35	11	54	3	31	18	g
9	E	Ember week.	virgo	5	0	11	11	58	3	28	19	a
10	F	Sun in Aries	virgo	18	North		12	2	3	24	20	b
11	G	Soldat. mart.	libra	0	0	36	12	6	3	20	21	c
12	A	Gregory	libra	12	1	0	12	10	3	17	22	d
13	B	2 Sund. in lent	libra	24	1	23	12	14	3	13	Pasch	
14	C	Candide	scorp.	6	1	47	12	18	3	9	24	f
15	D	Longinus	scorp.	18	2	10	12	22	3	6	25	g
16	E	Cyriac.	sagit.	0	2	34	12	26	3	2	26	a
17	F	Patrich. bish.	sagit.	12	2	57	12	30	2	59	27	b
18	G	Edward K.	sagit.	24	3	20	12	34	2	55	28	c
19	A	Jos. husb. Mary	capric.	6	3	44	12	38	2	51	29	d
20	B	3 Sund. in lent	capric.	18	4	7	12	42	2	48	30	e
21	C	Benedict	aquar.	1	4	30	12	46	2	44	31	f
22	D	Aphrodise	aquar.	14	4	53	12	50	2	41	APR.	
23	E	Theodore	aquar.	28	5	16	12	54	2	37	2	a
24	F	Botolph. Fast	pisces	12	5	39	12	58	2	33	3	b
25	G	Annun. Mar.	pisces	27	6	2	13	2	2	30	4	c
26	A	Fair at Walden	Aries	12	6	26	13	6	2	26	5	d
27	B	K. Charles beg.	aries	27	6	48	13	10	2	22	6	e
28	C	Dorothy virg.	taur.	12	7	10	13	14	2	19	7	f
29	D	Eustace abbot	taur.	27	7	33	13	18	2	15	8	g
30	E	Guydon	gem.	12	7	55	13	22	2	11	9	a
31	F	Adelm. bishop	gem.	26	8	17	13	26	2	8	10	b

declination.

April hath xxx dayes.

☽ First quarter the 2 day, 48 min. past 10 in the morning.
● Full moon the 10 day, 7 min. past 7 in the morning.
☾ Last quarter the 18 day, 4 min. past 9 in the morning.
● New moon the 25 day, 40 min. past 3 in the morning.

1	g	Theodos. virg	canc.	9	8	39	13	30	2	after noon. 4	11	f
2	a	Mary Egypt	canc.	23	9	1	13	34	2	0	12	g
3	b	☉ Sun. in Lent	leo	6	9	22	13	38	1	57	13	a
4	c	Isidore bish.	leo	19	9	44	13	41	1	53	14	b
5	d	Vincent conf.	virg.	1	10	5	13	45	1	49	15	c
6	e	Sextus mart	virg.	14	10	26	13	49	1	46	16	d
7	f	Egesippus	virg.	26	10	47	13	53	1	42	17	e
8	g	Dionysius	libr.	8	11	8	13	57	1	38	18	f
9	a	Perpetuus	libr.	20	11	29	14	0	1	35	19	g
10	b	☉ Sun in Taur.	scorp.	3	11	50	14	4	1	31	20	a
11	c	Leo pap.	scorp.	14	12	10	14	8	1	27	21	b
12	d	Julius	scorp.	26	12	30	14	12	1	23	22	c
13	e	Justinus	sagit.	8	12	50	14	16	1	20	23	d
14	f	Valerian m.	sagit.	20	13	9	14	19	1	16	24	e
15	g	Olympia	capr.	2	13	29	14	23	1	12	Mark	f
16	a	Calistus m.	capr.	14	13	48	14	27	1	9	26	g
17	b	Easter day.	capr.	26	14	7	14	30	1	5	27	a
18	c	Eleutherius	aquar.	9	14	26	14	34	1	1	28	b
19	d	Alphege mart	aquar.	22	14	45	14	38	0	57	29	c
20	e	Anno bish.	pisces	6	15	3	14	41	0	53	30	d
21	f	Simeon bish.	pisces	20	15	21	14	45	0	50	May.	e
22	g	Sother bish.	Aries	4	15	39	14	48	0	46	2	f
23	a	S. GEORGE	aries	19	15	57	14	52	0	42	3	g
24	b	Low sunday	taur.	4	16	14	14	55	0	38	4	a
25	c	Mark Evang.	taur.	20	16	31	14	58	0	34	5	b
26	d	Clete bishop	gem.	5	16	48	15	2	0	30	6	c
27	e	Anastatius	gem.	20	17	5	15	6	0	26	7	d
28	f	Vitalis mart.	canc.	5	17	21	15	9	0	23	8	e
29	g	Peter of Mil.	canc.	19	17	37	15	12	0	19	9	f
30	a	Erkinwald	leo	3	17	52	15	15	0	15	10	g

May hath xxxi dayes.

☽ First quarter the 1 day, 26 min. past 9 at night.
● Full moon the 9 day, 55 min. past 10 at night.
☾ Last quarter the 17 day, 43 min. past 7 at night.
● New moon the 24 day, 42 min. past 10 in the morning
☽ First quarter the last day, 21 min. past 10 in the morn.

1	B	Philip & Jam	eo	16	18	7	15	18	0	aft. n.	11	Pente	f
2	c	Quind. Pasch	eo	29	18	22	15	21	0		7	12	f g
3	d	Invent. crucis.	virg.	11	18	37	15	24	0		3	13	g a
4	e	Term begins	virg.	24	18	1	15	27	11	before noon	59	14	a b
5	f	Gothardus	libra	6	19	5	15	30	11		55	15	b c
6	g	John port. lat	libr.	18	19	19	15	33	11		51	16	c d
7	a	Joh. of Bever	scorp.	0	19	32	15	36	11		47	17	d e
8	b	3 Sun. aft. East.	scorp.	12	19	45	15	39	11		43	18	e f
9	c	Tres Pasch.	scorp.	24	19	58	15	42	11		39	19	f g
10	d	Gordian mar.	sag.	5	20	11	15	44	11		35	20	g a
11	e	Sun in Gem.	sag.	17	20	23	15	47	11		31	21	a b
12	f	Pancratius	sag.	29	20	35	15	50	11		28	22	b c
13	g	Servatius	capr.	12	20	47	15	52	11		24	23	c d
14	a	Boniface	capr.	24	20	58	15	55	11		20	24	d e
15	b	4 Sun. aft. East.	aqua.	6	21	8	15	57	11		16	25	e f
16	c	Mens. Pasch.	aqua.	19	21	19	16	0	11		12	26	f g
17	d	Bernard tran	pisc.	2	21	29	16	2	11		8	27	g a
18	e	Aquila	pisc.	15	21	38	16	4	11		3	28	a b
19	f	Bernhardine	Aries	0	21	47	16	6	10		59	29	b c
20	g		aries	14	21	56	16	8	10		55	30	c d
21	a	Helen queen	aries	28	22	5	16	10	10		51	31	d
22	b	Rogation	taur.	13	22	13	16	12	10		47	June	
23	c	Quinq. Pasch.	taur.	29	22	21	16	14	10		43	2	f
24	d	Herul. mart.	gem.	14	22	28	16	16	10		39	3	g
25	e		gem.	28	22	35	16	17	10		35	4	a
26	f	Ascension day	canc.	13	22	42	16	19	10		31	5	b
27	g	Crast. Ascen.	canc.	28	22	48	16	20	10		26	6	c
28	a	Germane bish	leo	8	22	53	16	22	10		22	7	d
29	b	5 Sun. aft. East.	leo	25	22	59	16	23	10		18	8	e
30	c	Term ends	virg.	8	23	4	16	24	10		14	9	f
31	d	Petronilla	virg.	21	23	8	16	25	10		10	10	g

June hath xxx dayes.

Full moon the 8 day, 42 min. past 1 in the afternoon.
Last quarter the 16 day, 15 min. past 3 in the morning.
New moon the 22 day, 14 min. past 6 at night.
First quarter the last day, 17 min. past 1 in the morning.

1	ℰ	Nichodeme	libr.	3	23	12	16	26	10	morning	6	11	a
2	f	Marcelline	libr.	15	23	16	16	27	10		2	12	b
3	g	Erasmus	libr.	26	23	20	16	28	9		58	13	c
4	a	Petrophan	scorp.	9	23	23	16	29	9		54	14	d
5	♋	Whitsunday.	scorp.	21	23	25	16	29	9		49	15	e
6	c	Claudius	sag.	3	23	27	16	30	9		45	16	f
7	d	Wolstan transl	sag.	15	23	29	16	30	9		41	17	g
8	e	Ember week.	sag.	27	23	30	16	30	9		37	18	a
9	f	Felician	capr.	9	23	31	16	30	9		33	19	b
10	g	Onuphrius	capr.	21	23	31	16	30	9		29	20	c
11	a	Sun in Cancer	aquar.	4	23	31	16	30	9		24	21	d
12	♋	Trinitie fund.	aquar.	16	23	31	16	30	9		20	22	e
13	c	Craft. Trin.	aquar.	29	23	30	16	30	9		16	23	f
14	d	Basil	pisc.	12	23	29	16	30	9		12	John	
15	e	Vitis	pisc.	26	23	27	16	30	9		8	25	a
16	f	Corp. Christ.	Aries	9	23	25	16	29	9		4	26	b
17	g	Term begins.	aries	23	23	23	16	29	9		0	57	c
18	a	Marcell. mar.	taur.	8	23	20	16	28	8		55	28	d
19	♋	1 Sun. aft. Trin	taur.	22	23	17	16	27	8		51	Peter	
20	c	Octab. Trin.	gem.	7	23	14	16	27	8		47	30	f
21	d	Edward tran	gem.	22	23	10	16	26	8		43	July.	
22	e	Alban mart.	canc.	7	23	6	16	25	8		39	2	a
23	f	Etheld. Fast	canc.	22	23	1	16	24	8		35	3	b
24	g	John Baptist.	leo	6	22	55	16	22	8		31	4	c
25	a	Eligius	leo	20	22	49	16	20	8		27	5	d
26	♋	2 Sun. aft. Trin	virg.	3	22	43	16	19	8		23	6	e
27	c	Quind. Trin.	virg.	16	22	37	16	18	8		19	7	f
28	d	Leo pap. Fast	virg.	29	22	30	16	16	8		15	8	g
29	e	Peter apostle	libr.	11	22	23	16	14	8		11	9	a
30	f	Com. S. P.	libr.	23	22	15	16	12	8		7	10	b

July hath xxxi dayes.

● Full moon the 8 day, 19 min. past 3 in the morning.
☾ Last quarter the 15 day, 7 min. past 9 in the morning.
● New moon the 22 day, 4 min. past 3 in the morning.
☽ First quarter the 29 day, 7 min. past 6 afternoon.

1	g	Theobaldus	scorp.	5	22	7	16	10	3	morning.	11	c
2	a	Visitat. Mar.	scorp.	16	21	59	16	8	7	59	12	d
3	b	Cran. of Tho.	scorp.	29	21	50	16	6	7	55	13	e
4	c	Tres trin.	sag.	11	21	41	16	4	7	51	14	f
5	d	Zoe virg.	sag.	23	21	31	16	2	7	47	15	g
6	e	Term ends	capr.	5	21	22	16	0	7	43	16	a
7	f	Becket	capr.	18	21	12	15	58	7	39	17	b
8	g	Thilliaus	aquar.	0	21	1	15	56	7	35	18	c
9	a	Cyrill bish.	aquar.	13	20	50	15	53	7	31	19	d
10	b	4 Sun. aft. Trin	aquar	26	20	39	15	50	7	21	20	e
11	c	Nab. & Felix	pisc.	9	20	27	15	47	7	23	21	f
12	d	Pius pap.	pisc.	23	20	15	15	45	7	19	22	g
13	e	Sun in Leo	Aries	6	20	3	15	42	7	15	23	a
14	f	Bonavent.	aries	20	19	51	15	40	7	11	24	b
15	g	Swithin tr.	taur.	4	19	38	15	37	7	7	James	
16	a	Osmond	taur.	18	19	24	15	34	7	3	26	d
17	b	5 Sun. aft. Trin	gem.	3	19	11	15	32	7	59	27	e
18	c	Simphon	gem.	17	18	57	15	29	6	55	28	f
19	d	Dog day. beg.	canc.	2	18	43	15	26	6	51	29	g
20	e	Margaret	canc.	16	18	28	15	23	6	47	30	a
21	f	Prax. virg.	leo	0	18	13	15	20	6	43	31	b
22	g	Magdelen	leo.	14	17	58	15	16	6	40	Aug.	
23	a	Sun eclipsed	leo	28	17	42	15	13	6	36	2	d
24	b	the 22 day.	virg.	11	17	27	15	10	6	32	3	e
25	c	James apost.	virg.	24	17	11	15	6	6	28	4	f
26	d	A faire at Wal-	libr.	7	16	55	15	3	6	24	5	g
27	e	den the 25 day.	libr.	19	16	38	15	0	6	20	6	a
28	f	Sampson b.	scorp.	1	16	21	14	56	6	16	7	b
29	g	Martha virg.	scorp.	13	16	4	14	53	6	12	8	c
30	a	Abdon & Sen	scorp.	25	15	47	14	50	6	8	9	d
31	b	7 Sun. aft. Trin	sag.	7	15	29	14	46	6	5	10	e

Auguſt hath xxxi dayes.

● Full moon the 6 day, 38 min. paſt 3 in the afternoon.
☾ Laſt quarter the 13 day, 9 min. paſt 2 in the afternoon.
● New moon the 20 day, 5 min. paſt 2 in the afternoon.
☽ Firſt quarter the 28 day, 15 min. paſt high noon.

Moon eclipſed the 6 day.

1	c	Lammas day	ſag.	19	15	11	14	42	6	Sunne.	1	11	f
2	d	Stephen pap.	capꝛ.	1	14	53	14	39	5		58	12	g
3	e		capꝛ.	13	14	35	14	36	5		54	13	a
4	f	Ariſtarch	capꝛ.	26	14	16	14	3?	5		50	14	b
5	g	Gowrie conſp.	aqua.	9	13	57	14	28	5		46	15	c
6	a	Tranſ. Dom.	aqua.	22	13	38	14	24	5		42	16	d
7	b	8 Sun. aft. Tr.	piſc.	5	13	19	14	21	5		39	17	e
8	c	Cyriac mart.	piſc.	19	13	0	14	17	5		35	18	f
9	d	Roman. mart.	Aries	3	12	40	14	14	5		31	19	g
10	e	Laurence m.	aries	17	12	20	14	10	5		28	20	a
11	f	Tyburt. mar.	taur.	1	12	0	14	6	5		24	21	b
12	g	Clare virg.	taur.	15	11	40	14	2	5		20	22	c
13	a	Sun in Virg.	taur.	29	11	19	13	59	5		17	23	d
14	b	9 Sun. aft. Tr.	gem.	13	10	58	13	55	5		13	Sarth.	e
15	c	Aſſum. Mar.	gem.	27	10	38	13	52	5		9	25	f
16	d	Roche conf.	canc.	11	10	17	13	48	5		5	26	g
17	e	Octab. Laur.	canc.	25	9	56	13	44	5		2	27	a
18	f	Agapit mart.	leo		9	34	13	40	4		58	28	b
19	g	Sebaldus	leo	23	9	13	13	36	4		54	29	c
20	a	Bernard	virg.	6	8	51	13	32	4		51	30	d
21	b	10 Sun. aft. Tr.	virg.	19	8	30	13	28	4		47	31	e
22	c	Dog da. end	libra	2	8	8	13	24	4		44	SEP.	
23	d	Zacheus Faſt	libra	15	7	46	13	20	4		40	2	g
24	e	Barthol. Apoſt.	libra	27	7	24	13	16	4		36	3	a
25	f	Lewis K.	ſcorp.	10	7	1	13	13	4		33	4	b
26	g	Ireneus	ſcorp.	21	6	39	13	9	4		29	5	c
27	a	Gebhard	ſag.	3	6	17	13	5	4		25	6	d
28	b	11 Sun. aft. Tr.	ſag.	15	5	54	13	2	4		22	7	e
29	c	John Beche.	ſag.	27	5	9	12	58	4		18	8	f
30	d		aquar.	9	5	5	12	55	4		15	9	g
31	e	Paulinus	aquar.	21	4	46	12	41	4		11	10	a

September hath xxx dayes.

☽ Full moon the 5 day, 40 min. past 2 in the morning.
☽ Last quarter the 11 day, 5 min. past 8 at night.
● New moon the 19 day, 41 min. past 3 in the morning.
☽ First quarter the 27 day, 48 min. past 6 in the morning.

1	f	Egidius	aquar.	4	4	23	12	45	♄	morning	7	11	b
2	g	Veronica	aquar.	17	♄	0	12	41	♄		4	12	c
3	a	Seraph. vir.	pisc.	0	♃	37	12	37	♄		0	13	d
4	b	12 Sun. aft. Tr.	pisc.	14	♃	13	12	3	♃		57	14	e
5	c	Bertine	pisces	28	♃	50	12	29	♃		53	15	f
6	d	Magni	Aries	12	♃	27	12	25	♃		50	16	g
7	e	Scirb. fair beg.	aries	27	♃	4	12	21	♃		46	17	a
8	f	Nat. Mar. virg.	taur.	11	☊	40	12	17	♃		43	18	b
9	g	Gorgonius	taur.	26	☊	17	12	13	♃		39	19	c
10	a		gem.	10	☋	53	12	9	♃		36	20	d
11	b	13 Sun. aft. Tr.	gem.	24	☋	30	12	5	♃		32	Matt.	e
12	c	Guidon mart.	cancer	8	☋	6	12	1	♃		29	22	f
13	d	Sun in Libra.	cancer	22	South		11	57	♃		25	23	g
14	e	Holy crosse.	leo	6	decli-		11	53	♃		22	24	a
15	f	Nicodemus	leo	19	nation.		11	49	♃		18	25	b
16	g	Euphemius	virg.	2	☊	28	11	45	♃		14	26	c
17	a	Lambert	virg.	15	☊	51	11	41	♃		11	27	d
18	b	14 Sun. aft. Tr.	virg.	28	♃	15	11	37	♃		7	28	e
19	c	Theod. bish	libra	11	♃	39	11	33	♃		4		
20	d	Eustace Fast	libra	23	♃	2	11	29	♃		0	30	f
21	e	Matthew ap.	scorp.	5	♃	25	11	25	♃		56	Oct.	g
22	f	Ember week.	scorp.	18	♃	49	11	21	♃		52	2	a
23	g	Linus 1. pap.	scorp.	29	♃	12	11	17	♃		48	3	b
24	a	Andrachie	sagit.	11	♃	36	11	13	♃		45	4	c
25	b	15 Sun. aft. Tr.	sagit.	23	♃	59	11	9	♃		41	5	d
26	c	Cyprian mar.	capric.	5	♃	22	11	5	♃		38	6	e
27	d	Cosm. & Dam.	capric.	17	♃	45	11	1	♃		35	7	f
28	e	Exuper. Fast	capr.	29	♄	8	10	57	♃		31	8	g
29	f	Michael arcn.	aquar.	12	♄	31	10	53	♃		27	9	a
30	g	Hieronymus	aquar.	25	♄	54	10	49	♃		24	10	b

October hath xxxi dayes.

● Full moon the 4 day, at one in the afternoon.
☾ Last quarter the 11 day, 14 min. past 4 in the morning.
● New moon the 18 day, 57 min. past 7 at night.
☽ First quarter the 26 day, 30 min. past midnight.

1	a	Remigius	pisc.	8	21	53	7	52	7	after noon 54	11	d
2	b	16 Sun. aft. Tr.	pisc.	22	21	43	7	55	7	50	12	e
3	c	Candid. mar.	Aries	6	21	33	7	57	7	45	13	f
4	d	Francis. conf.	aries	21	21	23	8	0	7	41	14	g
5	e	K. Ch. ret. fr. Sp.	taur.	6	21	12	8	2	7	37	15	a
6	f	Octab. Mich.	taur.	21	21	0	8	4	7	33	16	b
7	g	Mark pope	gem.	6	20	49	8	7	7	28	17	c
8	a		gem.	20	20	37	8	10	7	24	Luke.	
9	b	17 Sun. aft. Tr	cane.	5	20	24	8	13	7	20	19	d
10	c	Term begins	cane.	19	20	11	8	16	7	16	20	e
11	d	Burchard	leo	3	19	58	8	18	7	11	21	f
12	e	Cosman	leo	18	19	45	8	21	7	7	22	g
13	f	Sun in Scorpio	leo	29	19	31	8	24	7	3	23	a
14	g	Calixtus	virg.	12	19	16	8	27	6	59	24	b
15	a	Aurelia	virg.	25	19	2	8	30	6	55	25	c
16	b	18 Sun. aft. Tr.	libr.	7	18	46	8	34	6	50	26	d
17	c	Etheldred	libr.	20	18	30	8	37	6	46	27	e
18	d	Luke Evangel.	scorp.	2	18	15	8	40	6	42	Simo	
19	e	Frideswid.	scorp.	14	17	59	8	44	6	38	29	f
20	f	Tres Mich.	scorp.	26	17	43	8	47	6	34	30	g
21	g	Fair at Walden	sag.	8	17	26	8	50	6	30	31	a
22	a		sag.	20	17	9	8	54	6	25	Nova	
23	b	19 Sun. aft. Tr.	capr.	2	16	52	8	57	6	21	2	b
24	c	Salome	capr.	13	16	34	9	1	6	17	3	c
25	d	Chrispine	capr.	25	16	16	9	5	6	13	4	d
26	e	Black friers fall	aquar.	8	15	58	9	8	6	9	5	e
27	f	Mens. Mic. Fast	aquar.	20	15	40	9	12	6	5	6	f
28	g	Simon & Jude	pisc.	3	15	21	9	15	6	1	7	g
29	a	Narcissus	pisc.	16	15	2	9	19	5	57	8	a
30	b	20 Sun. aft. Tr.	Aries	0	14	43	9	23	5	53	9	b
31	c	Quint. Fast	aries	14	14	24	9	26	5	49	10	c

November hath xxx dayes.

Full moon the 2 day, 44 min. paſt 10 at night.
Laſt quarter the 9 day, 32 min. paſt 3 in the afternoon.
New moon the 17 day, 49 min. paſt 1 in the afternoon.
First quarter the 25 day, 53 min. paſt 3 afternoon.

1	d	All Saints	Aries	29	17	41	8	47	0	20	11		g
2	e	All ſouls.	taur.	14	17	58	8	44	0	16	12		a
3	f	Craſt. animar.	taur.	29	18	14	8	40	0	11	13		b
4	g	Emantius	gem.	15	18	30	8	37	0	7	14		c
5	a	Powder treaſō	gem.	29	18	45	8	34	0	3	15		d
6	b	21 Sun. af. Tr	canc.	14	19	0	8	30	after		16		e
7	c	Willibrood	canc.	29	19	15	8	28	11	51	17		f
8	d	4 crowned m.	leo	12	19	29	8	25	11	47	18		g
9	e	Theodor. mar.	leo	26	19	43	8	22	11	42	19		a
10	f	Triphon mar.	virg.	9	19	57	8	19	11	38	20		b
11	g	Martin biſh.	virg.	22	20	10	8	16	11	34	21		c
12	a	Sun in Sagit.	libra	4	20	23	8	13	11	30	22		d
13	b	22 Sun. af. Tr.	libra	17	20	35	8	10	11	25	23		e
14	c		libra	29	20	47	8	8	11	21	24		f
15	d	Leopoldus	ſcorp.	11	20	59	8	5	11	17	25		g
16	e	Edmond dep.	ſcorp.	23	21	10	8	2	11	13	26		a
17	f	Hugo biſh.	ſagit.	5	21	21	8	0	11	9	27		b
18	g	Octab. Mart.	ſagit.	17	21	31	7	58	11	4	28		c
19	a	K. Charles bor	ſagit.	28	21	41	7	56	11	0	29		d
20	b	23 Sun. af. Tr.	capr.	10	21	51	7	53	10	55	Adve		e
21	c	Preſent. of M	capr.	22	22	1	7	50	10	51	Dnc		f
22	d	Cicely virg.	aquar.	4	22	10	7	48	10	47	2		g
23	e	Clement pap.	aquar.	17	22	18	7	46	10	42	3		a
24	f	Chriſog mar.	aquar.	29	22	26	7	45	10	38	4		b
25	g	Quind. mart.	piſces	12	22	34	7	43	10	34	5		c
26	a	Pet. of Alex.	piſces	25	22	41	7	41	10	29	6		d
27	b	Advent-ſunday	Aries	9	22	48	7	40	10	25	7		e
28	c	Term ends	aries	23	22	54	7	38	10	21	8		f
29	d	Faſt	taur.	7	23	0	7	37	10	16	9		g
30	e	Andrew apoſt.	taur.	23	23	5	7	36	10	12	10		a

December hath xxxi dayes.

Full moon the 2 day, 55 min. past 8 morning.
Last quarter the 9 day, 21 min. past 6 in the morning.
New moon the 17 day, at 10 in the forenoon.
First quarter the 25 day, 27 minutes past 4 in the morning.
Full moon the last day, 49 min. past 7 at night.

1	f	Eligius bish.	gem.	8	23	9	4	35	10	7	11	b
2	g	Bibian virg	gem.	23	23	14	7	34	10	3	12	c
3	a	Lucius K.	ancer	8	23	18	7	32	9	58	13	d
4	b	2 Sun. in Adv.	ancer	23	23	21	7	32	9	54	14	e
5	c	Sabb. abbot	eo	7	23	24	7	31	9	50	15	f
6	d	Nicholas bish	eo	21	23	27	7	30	9	45	16	g
7	e	Ambrose bish.	virg.	5	23	29	7	30	9	41	17	a
8	f	Concep. Mary	virg.	18	23	30	7	30	9	36	18	b
9	g	Melchiades	libr.	1	23	31	7	30	9	32	19	c
10	a		libr.	14	23	31	7	30	9	28	20	d
11	b	Sun in Capr.	libr.	26	23	31	7	30	9	24	Iuno	e
12	c	Epimachius	scorp.	8	23	31	7	30	9	19	22	f
13	d	Nicasius	scorp.	20	23	30	7	30	9	15	23	g
14	e	Ember week.	sagit.	2	23	29	7	30	9	10	24	a
15	f	Valer. bish.	sagit.	14	23	27	7	30	9	6	Chri.	b
16	g	O sapientia.	sagit.	25	23	25	7	31	9	1	Steph	c
17	a	Lazarus bish.	capric.	7	23	22	7	32	8	57	John	d
18	b	4 Sun. in Adv.	capric.	19	23	19	7	32	8	53	Inno.	e
19	c	Nemes. mart.	aquar.	2	23	15	7	33	8	48	29	f
20	d	Iulian Fast	aquar.	14	23	11	7	34	8	43	30	g
21	e	Thom. Apost.	aquar.	26	23	6	7	35	8	39	31	a
22	f	30 Martyrs	pisces	9	23	1	7	36	8	35	Circ.	b
23	g	Victoria virg.	pisces	22	22	56	7	38	8	30	2	c
24	a	Ignat. Fast	Aries	5	22	50	7	39	8	26	3	d
25	b	Christmasse	aries	19	22	43	7	41	8	22	4	e
26	c	S. Stephen	taur.	2	22	36	7	42	8	17	5	f
27	d	S. John Evang.	taur.	17	22	29	7	44	8	13	Epip.	g
28	e	Innocents.	gem.	1	22	21	7	46	8	8	7	a
29	f	Thom. Cant.	gem.	16	22	13	7	48	8	4	8	b
30	g	James transl	cancr.	1	22	4	7	50	8	0	9	c
31	a	Silvester	cancr.	16	21	55	7	52	7	55	10	d

after noon.

A table of ſome of the fixt ſtarres, ſhewing with what degree of the Ecliptick they come to the meridian, their declinations; as alſo the time of their coming to the meridian, how long before or after the 7 ſtarres, thereby to finde their comings to the South any day deſired, by adding or ſubtracting, as you are directed by the letters (a) and (s) which are for adde, and ſubtract; as after ſhall appeare.

Starres names.	degree of the ecliptick.			declination.			diff. from 7 ſtarres.		
	Sign.	deg.	mi.	deg.	min.		ho.	min.	
Whales tayl *auſtral.*	♈	6	50	19	59	S.	3	1	s
The pole ſtarre	♈	8	0	87	23	N	2	57	s
Lucida in cap. ariet.	♈	28	47	21	45	N	1	39	s
Seven ſtarres	♉	23	5	22	57	N	0	0	a
Bulls eye	♊	5	49	15	44	N	0	49	a
The Goat	♊	13	55	45	33	N	1	24	a
Orions right ſhoulder	♊	24	32	7	17	N	2	9	a
The great dog	♋	7	43	16	13	S.	3	3	a
The head of Apollo prec.	♋	16	33	32	37	N	3	45	a
The leſſer dog	♋	18	36	6	8	N	3	54	a
Hydraes bright ſtarre	♌	15	19	7	7	S.	5	44	a
Lions heart	♌	25	2	13	4	N	5	23	a
Lions tail	♍	22	0	16	36	N	8	5	a
Virgins ſpike	♎	17	56	9	14	S.	9	4	a
Arcturus	♏	2	2	21	7	N	10	33	a
Lucida corona	♏	22	16	27	58	N	11	53	a
Scorpions heart	♐	8	55	25	31	S.	11	18	s
The flying eagle	♑	21	22	7	58	N	7	52	s
The harp	♑	5	38	38	29	N	9	1	s
Swannes tail	♒	4	56	44	1	N	5	57	s
Pegaſus ſhoulder	♓	4	8	9	0	N	4	51	s
Fomahant	♓	7	39	31	27	S.	4	49	s
Pegaſus legge	♓	10	11	26	8	N	4	40	s

The uſe of this table is by the ſtarres to know the houre of the night; or knowing the houre, to know the ſtarres: pleaſant for gentlemen, ſcholars, mariners, and others.

The

The uſe of the 5, 6, and 7 columnes in the precedent Almanack by Examples.

AGainſt the 12 of January, in the 5 columne are theſe figures 19, 45, the firſt for degrees, the ſecond for minutes, which ſhew the ſunne hath then 19 degr. and 45 min. declination, or that the ſunne is then 19 degr. 45 min. diſtant from the equinoctiall towards the ſouth: for from the 13 of September to the 10 of March, the ſunne hath ſouth declination; and from the 10 of March to the 13 of September, north: thus any other day. This is in uſe moſt for mariners, as alſo for others, for finding of the houre of the day, the ſunnes Azimuth, and divers other neceſſaries by inſtrumentall obſervations.

Alſo againſt the ſaid 12 of January, in the 6 columne are theſe figures 8, 21, the firſt is for houres, and the ſecond for min. which ſhew the length of the day then to be 8 hour. and 21 min. This is found by the ſunnes declination likewiſe; for 19 degr. 45 min. of the ſunnes ſouth declination, doth give the length of the day to be 8 hour. and 21 min. exactly, in this Latitude of 52 degrees.

The hour. and min. that are in one half of the day, are the hour. and min. of the ſunnes ſetting, that is, that 12 of January the ſunne ſets at 4 of the clock and 10 min.

The length of the night is knowen by ſubtracting the length of the day from 24 houres.

As the ſaid 12 of January the length of the day is 8 hour. and 21 min. which taken from 24 hour. there will remain 15 hour. and 39 min. for the length of the night.

Likewiſe the hour. and min. that are in one half of the night, are the hour. and min. of the ſunnes riſing, that is,

the 12 of January the ſunne riſeth at 7 of the clock and 49 min. Thus is ſhewed by that 6 columne the length of the day and night, the ſunnes riſing and ſetting, &c.

Againſt the ſaid 12 of January, in the 7 columne, are theſe figures 7, 7, which ſhew that upon that 12 of January the ſeuen ſtarres come to the ſouth at 7 of the clock and 7 min. at night.

Again likewiſe for the fixt ſtars in the foregoing table.

Example, Lucida in cap. ariet. (by the ſecond columne) comes to the meridian with the 28 degr. of ♈ and 47 min. by the 3 columne, it hath 21 degr. 45 min. of north declination.

Alſo in the 4 columne I finde there is 1 houre and 39 min. in time differing from the 7 ſtarres: to which hour. and min. is joyned this letter S, which is for ſubtract: therefore if from 7 hour. and 7 min. the coming to the ſouth of the 7 ſtarres, be ſubtracted that difference, that is, 1 hour. 39 min. the remainder will be 5 hour. and 28 min. which is the time of the coming to the ſouth of that ſtarre exactly. Secondly, by that table is found that Orions right ſhoulder comes to the meridian with the 24 degr. and 32 min. of Gemin. It hath 7 degr. and 17 min. of north declination, & it differs in time from the 7 ſtars 2 hour. and 9 min. to which alſo is joyned this letter A, which is for adde.

Therefore, if to the hour. and min. of the coming to the ſouth of the 7 ſtarres, which was before found 7 hour. and 7 min. be added the difference, 2 hour. and 9 min. the product will be 9 hour. and 16 min. that is, at 9 of the clock, and 16 min. at night, is the coming to the ſouth of Orions right ſhoulder.

Thus for any other day, and thus for any of the other ſtarres.

A plain and easie Table, shewing the beginning, continuance, and ending of the Reignes of all the Kings and Queens since *William* the Conquerour: with the time since their reigne ended to this yeare.

The Kings Names.	Began their Reigne.	Reigned year.	mon.	da.	Since their Reignes ended	
William Con	1066 *Octob.* 14	20	11	22	*Sept.* 9	549
William Ruf.	1087 *Sept.* 9	12	11	18	*Aug.* 2	536
Henry 1	1100 *Aug.* 2	35	4	11	*Dec.* 2	501
Stephen	1135 *Dec.* 2	18	11	19	*Octob.* 25	482
Henry 2	1154 *Octob.* 25	34	9	2	*July* 6	447
Richard 1	1189 *July* 6	9	9	22	*April* 6	437
John	1199 *April* 6	17	7	0	*Octob.* 19	420
Henry 3	1216 *Octob.* 19	56	1	0	*Nov.* 16	364
Edward 1	1272 *Nov.* 16	34	8	9	*July* 7	329
Edward 2	1307 *July* 7	19	7	6	*Jan.* 25	310
Edward 3	1327 *Jan.* 25	50	5	7	*June* 21	259
Richard 2	1377 *June* 21	22	3	16	*Sept.* 29	237
Henry 4	1399 *Sept.* 29	13	6	4	*Marc.* 20	224
Henry 5	1413 *Mar.* 20	9	5	24	*Aug.* 31	214
Henry 6	1422 *Aug.* 31	38	6	16	*Marc.* 4	175
Edward 4	1461 *Mar.* 4	22	1	8	*April* 9	153
Edward 5	1483 *April* 9	0	2	18	*June* 22	153
Richard 3	1483 *June* 22	2	2	5	*Aug.* 22	151
Henry 7	1485 *Aug.* 22	23	8	19	*April* 22	127
Henry 8	1509 *Apr.* 22	37	10	1	*Jan.* 28	89
Edward 6	1546 *Jan.* 28	6	5	19	*July* 6	83
Qu. *Mary*	1553 *July* 6	5	4	22	*Nov.* 17	78
Qu. *Elisabeth*	1558 *Nov.* 17	44	4	15	*Mar.* 25	33
K. *James*	1602 *Marc.* 24	22	0	3	*Mar.* 27	11
K. CHARLES	1625 *Marc.* 27	Whom God grant long to reigne				

¶ Note that each King began his reigne at the same time that the next precedent King ended his.

¶ Of the foure quarters of the yeare.

Of Winter.

The Hyemall quarter, being the first according to our Astronomicall account, took his beginning in the antecedent yeare 1635, December the 11, at 10 of the clock and 39 minutes at night: at which time the Sunne entred into the first minute of Capricorn, producing to us our shortest day, being in length but 7 houres, 29 minutes, and 6 seconds; which is by reason the Sunne hath then his greatest declination towards the South, his altitude upon our meridian being but 14 degrees, and 28 minutes, and his amplitude of rising from the true East point towards the South, is 40 degr. 25 minutes. This quarter continueth untill the Sunne hath passed through these three winterly signes, ♑, ♒, and ♓, being by nature more cold then any of the other seasons; and the weather being the more agreeable to its own nature, is the better. A warm and moist winter is an enemy to husbandmen; but reasonable store of frost and snow doth ranken the fields, and beget plenty.

Fierce Boreas blasts all living things do nip,
And sapleſſe trees of Summer fruits do strip:
Now hills, rocks, mountains cover'd are with snow,
Which soon with flouds the valleys overflow.

Of the Spring.

The Sunne, which is not onely the Worlds bright eye, but also the beginner, finisher, and divider of times and seasons, as of dayes, monthes, and yeares, having run his course through the 12 signes in the Zodiack, doth now anew begin again his task, & entereth into the equidiurnall signe ♈ this 9 of March, at 11 of the clock and 9 minutes at night; whereby the day is reduced to an equall length

length with the night to us, and in all other places, except it be under the poles of the world, where they have the Sunne continuing above their horizon many dayes together. This quarter continueth untill the Sunne hath passed through these three Vernall signes ♈, ♉, and ♊, being more comfortable then any of the other seasons to all things that have either life or motion. Lambes do now begin to skip and play, and the young and tender plants put forth their branches: the Sun yeeldeth heat moderately, whilest the sweet influentall showers are distilling down the little hills and valleys, whereby mans heart is inflamed with a hopeful reward of his long & wearied labours.

Of Summer.

THe Sunne being now 23 degrees, 31 minutes, and 30 seconds on the North side of the Equator, which (according to the observation of Astronomers) is his greatest declination, hath his first entrance into the solstitiall signe Cancer, this yeare the 11 of June, 54 minut. after 2 of the clock in the morning, being then nearest to our Zenith, and our day at Walden 16 houres, 30 minutes, and 54 seconds in length. His amplitude of rising is now towards the North, not coming to the true East point till 19 minutes after 7 of the clock; and to the West 41 minutes after 4. whereby it appeareth, that nothing standing upright can give any true shadow to finde any other houre of the day then noon, as many falsly suppose. This quarter continueth untill the Sunne hath passed through these three signes ♋, ♌, and ♍, being naturally hot and dry, bringing all things to a full perfection of ripenes, that have been hatched and brought forth by the Spring.

Of Autumne.

AUtumne the last quarter Astronomicall, beginneth the 13 day of September, 41 minut. after 5 of the clock at night, the Sunne then entring into the first minute of

Libra, and making again the day and night of equall length. This quarter continueth untill the Sunne hath passed through these three signes, viz. ♎, ♏, ♐: in which time the earth will have quite lost her beauty, and all other things wherewith our outward senses have heretofore been much delighted, will fade away: whereupon I may conclude,

OFt wants our sight that lamp of light
which passeth all in fame;
Who by his force in Northern course
cold *Boreas* blasts can tame.
Gone are those houres when *Aprils* showers
did entertain the spring,
And birds in woods on boughs and buds
did make their echoes ring.
That moneth of *May* in garments gay,
that vernall time was spide;
Now kept in awy by natures law,
and forc't to leave that pride.
Valleys that green in *June* were seen,
till now could not abide,
The scorching heat of *Julies* threat
of beauty them depriv'd.
We could not stay, no not one day,
of *August's* moneth so kinde,
Though well approv'd, us dearly lov'd,
as once a yeare we finde:
He doth resigne and yeeld his time
to the Autumnall season,
When leaves do fall, and eke withall
such pleasant sights are geason.
Thus seasons fast with time flie past,
so swift doth Phœbus ride;
We cannot clasp our hold so fast,
but from us soon they slide.

Of

Of the Eclipſes happening this yeare 1636.

THere will be this yeares foure eclipſes, two of the ſun, and two of the moon; but there will be but onely one of them viſible in our horizon, and that is the firſt of the moon, which happeneth the 10 of February, in the 2 degree and 3 minutes of Virgo, neare unto the Dragons-tail, the ſunne in the oppoſite place, appearing to us as followeth.

	ho.	min.	
The beginning at	8	53	at night.
The middle at	10	33	
And the end at	12	14	
The time eclipſed is	3	21	

The parts of her bodie eclipſed are three digits and 22 minutes.

The moons latitude at the beginning is 45 min. 48 ſec. M. D. and at her ending 54 min. 57 ſeconds, ſouth deſcending likewiſe. The other eclipſes when they happen, I have noted in the Almanack.

Of the motion of the planets this yeare.

SAturn is retrograde from the 14 of April, to the firſt of September.

Jupiter is retrograde from the 11 of December 1635, to the 11 of April 1636.

Mars is retrograde from the 4 of March, to the 18 of May.

Venus is retrograde from the 21 of Auguſt, to the ſecond of October.

Mercurie is retrograde from the 21 of March, to the 12 of April: from the 15 of July, to the 8 of Auguſt: and from the 8 of November, to the laſt of the ſame. Venus is our evening ſtarre ſetting after the ſunne, untill the tenth of September: then ſhe begins to be our bright morning ſtar, riſing before the ſunne.

A table shewing the houre and minute of full sea at London-bridge any day this yeare 1636.

Day.	January hou. min.	February hou. min.	March hou. min.	April hou. min	May hou. min.	June hou. min
1	5 S.W. 51	6 S.W 57	6 S.W. 42	8 S.W. 35	9 S.W. 15	10 S.W 11
2	6 36	7 47	7 40	9 34	10 6	10 51
3	7 24	8 45	8 39	10 24	10 51	11 34
4	8 14	9 41	9 37	11 15	11 35	12 16
5	9 4	10 33	10 34	12 0	12 15	13 0
6	9 55	11 31	11 29	12 48	12 57	13 39
7	10 46	12 29	12 22	13 30	13 40	14 23
8	11 46	13 24	13 10	14 11	14 23	15 2
9	12 45	14 16	13 58	14 54	15 8	3 N.E. 53
10	13 45	15 8	14 41	15 N.E 35	3 N.E. 31	4 44
11	14 39	3 N.E. 28	15 24	3 55	4 20	5 32
12	15 13	4 11	3 N.E. 42	4 46	5 11	6 22
13	4 N.E. 4	4 54	4 26	5 32	6 1	7 10
14	4 53	5 37	5 10	6 22	6 51	7 57
15	5 39	6 19	5 54	7 12	7 4	8 44
16	6 20	7 2	6 41	8 3	8 31	9 32
17	7 2	7 48	7 31	8 54	9 18	10 22
18	7 43	8 28	8 19	9 41	10 3	11 13
19	8 26	9 24	9 10	10 34	10 51	12 9
20	9 10	10 20	10 2	11 22	11 41	13 12
21	9 55	11 11	10 52	12 12	12 37	14 17
22	10 40	12 3	11 45	13 5	13 31	15 18
23	11 31	12 57	12 36	13 56	14 24	3 S.W. 50
24	12 24	13 49	13 27	14 52	15 9	4 48
25	13 18	14 41	14 20	3 S.W. 25	4 S.W. 12	5 41
26	14 15	15 8	15 14	4 27	5 14	6 30
27	15 10	4 S.W. 0	3 S.W. 42	5 25	6 12	7 16
28	3 S.W. 32	4 51	4 39	6 32	7 6	7 59
29	4 24	5 39	5 38	7 30	7 57	8 43
30	5 14		6 38	8 26	8 44	9 25
31	6 5		7 40		9 28	

A table shewing the houre and minute of full sea at London-bridge any day this yeare 1636.

days	July hou.	min.	August hou.	min.	September hou.	min.	October hou.	min	Novemb. hou.	min.	Decemb. hou.	min.
1	10	S.W. 6	11	S.W 8	12	S.W 48	12	S.W 56	14	S.W. 8	14	S.W 36
2	10	50	11	58	13	20	13	45	15	4	3	N.E 13
3	11	34	12	50	14	11	14	35	3	N.E 38	4	16
4	12	26	13	40	15	2	15	27	4	41	5	18
5	13	14	14	32	3	25	3	58	5	44	6	17
6	14	3	15	22	4	N.E. 17	4	N.E. 55	6	46	7	19
7	14	56	3	N.E. 48	5	10	5	55	7	44	8	0
8	15	24	4	37	6	3	6	58	8	40	8	46
9	4	N.E. 14	5	25	6	59	7	59	9	28	9	30
10	5	2	6	15	7	56	8	56	10	16	10	13
11	5	51	7	6	8	56	9	55	11	1	10	56
12	6	34	8	0	9	56	10	46	11	44	11	37
13	7	26	8	53	10	53	11	34	12	26	12	23
14	8	15	9	53	11	49	12	20	13	9	13	8
15	9	6	10	53	12	41	13	2	13	53	13	57
16	9	58	11	52	13	29	13	48	14	38	14	46
17	10	54	12	50	14	16	14	31	15	24	3	S.W. 10
18	11	54	13	45	14	58	15	14	3	S.W. 49	3	59
19	12	56	14	36	3	S.W 21	3	S.W. 34	4	39	4	47
20	14	0	15	26	4	6	4	21	5	28	5	34
21	15	0	3	S.W. 48	4	49	5	10	6	18	6	22
22	3	S.W 22	4	35	5	30	5	59	7	3	7	6
23	4	17	5	18	6	22	6	49	7	50	7	51
24	5	6	6	2	7	10	7	37	8	40	8	35
25	5	51	6	47	7	58	8	25	9	22	9	22
26	6	39	7	32	8	49	9	14	10	6	10	10
27	7	18	8	19	9	39	10	3	10	54	11	6
28	8	0	9	8	10	26	10	49	11	45	12	2
29	8	46	9	56	11	18	11	33	12	36	13	3
30	9	34	10	47	12	8	12	24	13	31	14	3
31	10	19	11	39			13	14			14	58

The

The use of the former table.

The 22 of January it will be a full sea at London-bridge, at 10 of the clock and 40 minutes, by the Moons North-easting, as the letters N. E. do shew. It is alwayes meant afternoon: and so many hour. and minut. as are there found more then 12, are so many hour. and min. after midnight.

As January 27, it is full sea at London-bridge at 15 ho. and 10 min. that is, 10 minutes past 3 of the clock the next morning by the Moons North-easting, which is upon the 28 day: also the same day it is full sea 32 minut. past 3 of the clock in the afternoon by the Moons South-westing.

A table shewing how long the moon doth rise or set after it is full sea at London-bridge, thereby to finde her rising after her full, and setting after her change, calculated for the moon cutting the ecliptick in the 15 degree of Aquarius.

☽ Sett. ☉ S. Wst	☽ Ris. ☉ N. Est	0 ho.	degr. m.	5 ho.	degr. m.	10 ho.	degr. m.	15 ho.	degr. m.	20 ho.	degr. m.	25 ho.	degr. m.
Aries	Libra	3	23	3	35	3	47	3	59	4	11	4	23
Taur.	Scorp	4	35	4	47	4	58	5	9	5	19	5	28
Gem.	Sagit	5	30	5	44	5	48	5	53	5	58	6	3
Canc.	Capri	6	0	5	54	5	45	5	36	5	30	5	21
Leo	Aquar	5	11	5	1	4	50	4	38	4	26	4	13
Virgo	Pisces	4	1	3	49	3	37	3	25	3	13	3	1
Libra	Aries	2	34	2	37	2	25	2	13	2	1	1	49
Scorp	Taur.	1	37	1	25	1	14	1	3	0	53	0	44
Sagit.	Gem.	0	35	0	28	0	24	0	19	0	14	0	9
Capri	Canc.	0	12	0	18	0	27	0	36	0	42	0	51
Aquar	Leo	1	1	1	11	1	22	1	34	1	46	1	59
Pisces	Virgo	2	11	2	23	2	35	2	47	2	59	3	11

How

How to use the former tables, thereby to finde the Moons rising and setting.

FIrst in the kalender, against the day you desire, in the 4 columne, seek for the moons place, also seek in the table of full sea at London-bridge, for the hour. & min. of full sea that day, then under the title of (☾ set) in this last table if you seek for her setting; but if for her rising, under this title (☽ rise) finde the signe you found her to be in in the kalender, and from that signe guide your eye in a straight line until you come under the degr. on the head of the table, and the hour. and min. there found, added to the hour. and min. of full sea at London-bridge that day, the product will be your desire: but if your number of hour. and min. exceed 12, cast of 12 from your number, and the remainder will be the hour. and mun after midnight.

Example, January the 6, I demand the hour. and min. of the ☽ setting, and seeking in the 4 columne in the kalender against the said 6 of January, I there finde the ☽ place to be 10 degr. of ♉: also the same day I finde (by the foregoing table for that purpose) that it will be a full sea at London-bridge 55 min after 9 of the clock, by the ☽ southwesting, as is there shewed by these letters S, W: then I come to this last table, and under these letters S, W, or ☽ set, I finde Taurus the signe the moon is in, from which I guide mine eye in a straight line towards the right hand, until I come under the 15 degr. on the head of the table (for that I suppose will be neerest her place at the time of her setting) & in that angle or place of meeting are 5 hour. 9 min. and so long doth the ☽ set after it is full sea at London-bridge, that 6 of January: therefore, if to the hour. and min. of full sea that day, which were found 9 hour. 55 min. be added the said 5 hour. 9 min. the product will be 15 hour. 4 min. from which number, cast off 12, and the remainder will be 3 hour. 4 min. and so long doth the ☾ set after midnight that 6 of January.

In like manner to finde her rising: January the 19, her place at noon is 2 degrees of Scorpio, also it will be full

sea

sea at London-bridge 26 min. after 8 of the clock, then I come to this last table, and under this title ☽ rise, or N. E. I finde Scorpio the Moons place, and from thence I guide mine eye in a straight line, untill I come under the 5 deg. on the head of the table, and there I finde 4 houres and 47 minut. which being added to the former 8 houres and 26 min. the time of full sea at London-bridge (as before found) the product will be 13 houres and 13 minut. from which if 12 be cast off, there will be 1 houre and 13 min. remaining, that is, the moon doth rise at 1 of the clock and 13 min. the next morning, that is, the 20 of January in the morning. Thus any other day.

A table shewing when it will be a full sea in most of the principall havens in or neare *England*.

	H.	M.
Quinborough, Southhampton, Portsmouth, Wellin	3	6
Rochestor, Redband, Aberden, Maldon	2	15
Downs, Gravesend, Romney, Tennet, Ramkins	1	30
Dunde, S. Andrews, Silli, Lisbon, S. Lucas, Maze	0	45

To know the time of high water in any of these havens above-said, subtract their houres and from the houre and min. of full sea at London: *but for these following adde.*

Tinmouth, Amsterdam, Gascoigne,	0	0
Barwick, Ostend, Scarborough, Flambrough, Flushing	0	45
Frith, Leith, Dunbar, Narbon, Monsh, Egmon	1	30
Falmouth, Foy, Garnsey, Severmouth, Waterford	2	15
Lin, Humber, Hull, Newcastle, Plimouth, Antwerp	3	0
Bristoll, Lavion, Foulnes	3	45
Milford, Bridgewater, North-cost, Exwater, Texwell	4	30
Portland, Peterport, Harefiew, Hague, Blanch	5	15
Orkney-poole, Orwell, S. Hellen, Flee, Eames, Ebden	6	0
Orford, Casket, Needles, Deep, Lux, Lenow	6	45
Harwich, Dover, Yarmouth, Dublin, Bulloigne	7	30
Calice, Rye, Winchelsey, Gorend, Calshot	8	15

Of

¶ Of the Planets, their places in the Zodiack, as also of their nocturnall risings, southings, and settings, the first day of every moneth.

January.

SUnne ☉ 21 degrees of ♑. Saturn ♄ 7 degrees of ♑.
Jupiter ♃ 3 degr. of ♏. Mars ♂ 20 deg. of ♎.
Venus ♀ 29 deg. of ♑. Mercury ☿ 27 deg. of ♐.
Saturn ♄ riseth but 57 min. before the sunne.
Jupiter ♃ riseth in the evening 4 min. before 8, and south 53 min. past 2 in the morning.
Mars ♂ riseth a quarter of an houre after midnight, and south at 5 and 46 min. morning.
Venus ♀, and Mercury ☿ not to be seen.

February.

☉ 22 deg. 40 min. of ♒. ♄ 11 deg. of ♑. ♃ 1 deg. of ♏.
♂ 2 degr. of ♍. ♂ 8 degr. of ♓. ☿ 16 degr. of ♒.
♄ riseth 11 min. after 5 in the morning.
♃ south 35 min. past midnight.
♂ riseth 8 min. after 11 at night, & sets 21 m. past 4 morn.
♀ is now an evening starre, setting 13 min. after 6.
☿ is yet with the sunne.

March.

☉ 21 deg. 36 min. of ♓. ♄ 13 deg. of ♑. ♃ 27 deg. of ♐.
♂ 6 deg. of ♍. ♀ 14 deg. of ♈. ☿ 7 deg. of ♈.
♄ riseth half an houre after 3 in the morning.
♂ south 52 min. after 2 in the morning, rising 51 min. after 11 at night.
♃ south 31 min. after 10 at night, and sets 43 min. past 5 in the morning.
The evening starre sets an houre and a quarter after the sunne.
☿ sets a quarter of an houre after 7 at night.

April

April.

☉ 22 deg. 8 min. of ♈. ♄ 15 deg. of ♍. ♃ 25 deg. ♌.
♂ 2 deg. of ♐. ♀ 22 deg. of ♉. ☿ 17 deg. ♈.
♄ riſeth 41 min. after 1 in the morning, and ſouth 41 min. paſt 5.
♃ ſouth half an houre after 8 at night, and ſetteth 43 min. paſt 3 in the morning.
♂ ſouth 40 min. after midnight.
The evening ſtarre ſetteth 39 min. after 9. ☿ not ſeen.

May.

☉ 21 deg. 11 min. ♉. ♄ 14 deg. of ♍. ♃ 25 deg. of ♌.
♂ 21 deg. of ♎. ♀ 27 deg. of ♊. ☿ 26 deg. of ♈.
♄ riſeth at 11 and 48 min. at night, and ſouth at 48 min. paſt 3 in the morning.
♃ ſouth 36 min. after 6 at night, and ſetteth 51 min. after 1 in the morning.
♂ ſouth preſently after 10 at night.
The evening ſtarre ſetteth preſently after 11 at night.
☿ riſeth half an houre after 3 in the morning.

June.

☉ 20 deg. 50 min. of ♊. ♄ 13 deg. of ♍. ♃ 28 deg. of ♌
♂ 20 deg. of ♎. ♀ 2 deg. of ♌. ☿ 23 deg. of ♊.
♄ ſouth 36 min. after 1 in the morning.
♃ ſetteth at 11 and 52 min. at night.
♂ ſouth 56 minut. after 7 at night, and ſetteth 16 min. after 1 in the morning.
The evening ſtarre ſetteth 4 minut. after 11 of the clock.
☿ wrapped warm in the ſunnes mantle.

July.

☉ 19 degr. 23 of ♋. ♄ 10 deg. of ♍. ♃ 3 deg. of ♐.
♂ 29 deg. of ♎. ♀ 3 degr. of ♐. ☿ 15 degr. of ♌.
♄ ſouth 22 min. after 11 at night.
♂ ſetteth 23 min. after 11 at night.
♃ and ♀ are both evening ſtarres neare together, ♃ ſetting 56 min. after 9 at night, and ♀ at ten.
☿ ſetteth 14 min. after 9 at night.

August.

August.

☉ 19 deg. 1 min. of ♌. ♄ 8 deg. of ♍. ♃ 9 deg. of ♏.
♂ 15 deg. of ♎. ♀ 28 degr. of ♏. ☿ 13 deg. of ♌.
♄ south 11 min. past 9 night; & setteth 7 min. past 1 moz.
♂ setteth 50 min. after 9 at night.
The evening starre setteth but 58 min. after the sunne.
♃ and ☿ not to be seen.

September.

☉ 19 deg. 0 min. of ♏. ♄ 7 deg. of ♍. ♃ 16 deg. of ♏.
♂ 4 deg. of ♐. ♀ 3 deg. of ♎. ☿ 6 deg. of ♏.
♄ setteth 8 min. after 11 at night.
♂ setteth 51 min. after 8 at night.
♃ ♀ and ☿ neare the sunne.

October.

☉ 18 deg. 32 min. ♎. ♄ 8 deg. of ♍. ♃ 22 deg. of ♏.
♂ 25 deg. of ♐ ☿ 28 deg. of ♎. ♀ 21 deg. of ♏.
♄ setteth 13 min. past 9 at night.
♂ setteth 7 min. after 8 at night.
♃ is now become a mozning starre rising 5 min. past 4.
♀ and ☿ not yet to be seen.

November.

☉ 19 deg. 36 min. of ♏. ♄ 10 deg. of ♍. ♃ 28 deg. of ♏.
♂ 17 deg. 34 min. of ♍. ♀ 5 deg. of ♎. ☿ 9 deg. of ♐.
♄ setteth 52 min. after 7 at night.
♃ riseth 40 min past 3 in the mozning.
♂ setteth 53 min after 7 at night being very neare ♄.
♀ is now a mozning starre rising 17 min. after 3.
☿ setteth half an houre after the sunne.

December.

☉ 20 deg. 5 min. of ♐. ♄ 13 deg. of ♍. ♃ 2 deg. of ♎.
♂ 10 deg. of ♑. ♀ 4 deg. of ♏. ☿ 4 deg. of ♐.
♄ setteth 38 min. past 5 at night.
♃ riseth 53 min. after midnight.
♂ setteth a little before 8 at night.
The mozning starre riseth 44 min. after 4.
☿ riseth 38 min. after 6 in the mozning.

A table shewing the true interest due upon any summe of money, from a shilling to an hundred pounds.

Shillings

	1 mon.			2 mon.			1 quart			4. mon.			5. mon.			half yea		
	sh.	d.	par	sh.	d.	par.	sh.	d.	par	sh.	d.	par.	sh.	d.	par	sh.	d.	par
1	0	0	2	0	0	4	0	0	6	0	0	8	0	0	10	0	0	12
2	0	0	4	0	0	8	0	0	12	0	0	16	0	0	20	0	0	24
3	0	0	6	0	0	12	0	0	18	0	0	24	0	1	5	0	1	11
4	0	0	8	0	0	16	0	0	24	0	1	7	0	1	15	0	1	23
5	0	0	10	0	0	20	0	1	5	0	1	15	0	2	0	0	2	10
6	0	0	12	0	0	24	0	1	11	0	1	23	0	2	10	0	2	22
7	0	0	14	0	1	3	0	1	17	0	2	6	0	2	20	0	3	9
8	0	0	16	0	1	7	0	1	23	0	2	14	0	3	5	0	3	21
9	0	0	18	0	1	11	0	2	4	0	2	22	0	3	15	0	4	8
10	0	0	20	0	1	15	0	2	10	0	3	5	0	4	0	0	4	20
1	0	1	15	0	3	5	0	4	20	0	6	10	0	8	0	0	9	15
2	0	3	5	0	6	10	0	9	15	1	0	20	1	4	0	1	7	5
3	0	4	20	0	9	15	1	2	10	1	7	5	2	0	0	2	4	20
4	0	6	10	1	0	20	1	7	5	2	1	15	2	8	0	3	2	10
5	0	8	0	1	4	0	2	0	0	2	8	0	3	4	0	4	0	0
6	0	9	15	1	7	5	2	4	20	3	2	10	4	0	0	4	9	15
7	0	11	5	1	10	10	2	9	15	3	8	20	4	8	0	5	7	5
8	1	0	20	2	1	15	3	2	10	4	3	5	5	4	0	6	4	20
9	1	2	10	2	4	20	3	7	5	4	9	15	6	0	0	7	2	10

Pounds

	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.
10	0	1	4	0	2	8	0	4	0	0	5	4	0	6	8	0	8	0
20	0	2	8	0	5	4	0	8	0	0	10	8	0	13	4	0	16	0
30	0	4	0	0	8	0	0	12	0	0	16	0	1	0	0	1	4	0
40	0	5	4	0	10	8	0	16	0	1	1	4	1	6	8	1	12	0
50	0	6	8	0	13	4	1	0	0	1	6	8	1	13	4	2	0	0
60	0	8	0	0	16	0	1	4	0	1	12	0	2	0	0	2	8	0
70	0	9	4	0	18	8	1	8	0	1	17	4	2	6	8	2	16	0
80	0	10	8	1	1	4	1	12	0	2	2	8	2	13	4	3	4	0
90	0	12	0	1	4	0	1	16	0	2	8	0	3	0	0	3	12	0
100	0	13	4	1	6	8	2	0	0	2	13	4	3	6	8	4	0	0

Tymes of pounds.

For a yeare or any time under, calculated after the rate of 8 pound in the hundred.

	7 mon.			8 mon.			9. quart.			10. mon.			11. mon.			a yeare.		
	lib.	s.	par.	lib.	s.	par.	lib.	s.	par.	lib.	s.	par.	lib.	s.	par.	lib.	s.	par.
Shillings	1	0	0	14	0	0	16	0	0	18	0	0	20	0	0	22	0	0	24
	2	0	1	3	0	1	7	0	1	11	0	1	15	0	1	19	0	1	23
	3	0	1	17	0	1	23	0	2	4	0	2	10	0	2	16	0	2	22
	4	0	2	6	0	2	14	0	2	22	0	3	5	0	3	13	0	3	21
	5	0	2	20	0	3	5	0	3	17	0	4	0	0	4	10	0	4	20
	6	0	3	9	0	3	21	0	4	8	0	4	20	0	5	7	0	5	19
	7	0	3	23	0	4	12	0	5	1	0	5	15	0	6	4	0	6	18
	8	0	4	12	0	5	3	0	5	19	0	6	10	0	7	1	0	7	17
	9	0	5	1	0	5	19	0	6	12	0	7	5	0	7	23	0	8	16
	10	0	5	15	0	6	10	0	7	5	0	8	0	0	8	20	0	9	15
Pounds	1	0	11	5	1	0	20	1	2	10	1	4	0	1	5	15	1	7	5
	2	1	10	10	2	1	15	2	4	20	2	8	0	2	11	5	2	2	10
	3	2	9	15	3	2	10	3	7	5	4	0	0	4	4	20	4	9	15
	4	3	8	20	4	3	5	4	9	15	5	4	0	5	10	10	6	4	20
	5	4	8	0	5	4	0	6	0	0	6	8	0	7	4	0	8	0	0
	6	5	7	5	6	4	20	7	2	10	8	0	0	8	9	15	9	7	5
	7	6	6	10	7	5	15	8	4	20	9	4	0	10	3	5	11	2	10
	8	7	5	15	8	6	10	9	7	5	10	8	0	11	8	20	12	9	15
	9	8	4	20	9	7	5	10	9	15	12	0	0	13	2	10	14	4	20
		li.	sh.	d.	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.
Cases of pounds.	10	0	9	4	0	10	8	0	12	0	0	13	4	0	14	8	0	16	0
	20	0	18	8	1	1	4	1	4	0	1	6	8	1	9	4	1	12	0
	30	1	8	0	1	12	0	1	16	0	2	0	0	2	4	0	2	8	0
	40	1	17	4	2	2	8	2	8	0	2	13	4	2	18	8	3	4	0
	50	2	6	8	2	13	4	3	0	0	3	6	8	3	13	4	4	0	0
	60	2	16	0	3	4	0	3	12	0	4	0	0	4	8	0	4	16	0
	70	3	5	4	3	14	8	4	4	0	4	13	4	5	2	8	5	12	0
	80	3	14	8	4	5	4	4	16	0	5	6	8	5	17	4	6	8	0
	90	4	4	0	4	16	0	5	8	0	6	0	0	6	12	0	7	4	0
	100	4	13	4	5	6	8	6	0	0	6	13	4	7	6	8	8	0	0

The uſe of the former tables.

If you deſire to know what intereſt is due upon any ſumme of money any time deſired by theſe tables, ſeek the ſumme on the ſides of the tables, and the time on the head of the ſame, and in the angle or place of meeting you have the ſumme deſired, in pounds, ſhillings, pence, and parts of pence, as the titles above ſhew. And note that 25 of them parts of pence make a peny.

Example.

I would know what intereſt is due upon ſeven pounds for five moneths, therefore I ſeek for 7 on the left hand of the firſt table, where it is titled with pounds; and from that ſeven I guide mine eye in a right line, untill I come under 5, the number of moneths; and in that place of meeting is 4 ſhillings 8 pence, which is the juſt ſumme due for ſeven pounds in 5 moneths.

But if I would know what intereſt is due upon 17 pounds for 5 moneths, then I ſeek on the ſide of the table for ten pounds, and ſee what intereſt is due upon ten pounds, which in this table is found to be 6 ſhillings 8 pence, which being added to the former 4 ſhillings and 8 pence, the ſumme will be 11 ſhill. and foure pence, the intereſt due upon 17 pounds for 5 moneths

Alſo I would know what intereſt is due upon 17 ſhillings for 8 moneths, and therefore I ſeek in the table 10 and 7 againſt ſhillings; and under 8 moneths againſt ten is 6 pence and 10 parts of a peny, alſo againſt 7 is 4 pence and 12 parts of a peny, adde theſe two ſummes together, and the product will be ten pence, and 22 parts, ſuch as 25 of them make a peny: whereupon I conclude the intereſt due upon 17 ſhill. in 8 moneths to be almoſt 11 pence. And in like manner may be done with other ſummes: As if the ſumme were 56 pounds, ſee by the tables what is due upon 50 pounds your time deſired, and what is due upon 6 pounds, and adde theſe two ſummes together, and you have your deſire.

Of

Of measures geometricall.

THree barley corns in length make an inch, 12 inches a foot, 3 feet a yard, 5 yards and a half, or 16 feet and an half make a pole or rod to measure land with, and 40 of them poles is a furlong, and 8 furlongs is an English mile.

In an English mile is contained
- 1560 yards.
- 5280 feet.
- 63360 inches.
- 190080 barley-corns.

An acre by the statute is 40 poles in length, and foure in breadth:

In which is contained of square
- poles 160.
- yards 4840.
- feet 43560.
- inches 6272640.

In a foot of board or glasse is contained 144 flat square inches. In a foot of timber is contained 1728 cubicall square inches; that is, every way square in form of a dice: and of such like square quarters of inches 110592.

To measure timber, is to multiplie its square in it self, and with that product divide 1728, (the square inches that are in one foot) and the quotient will shew how much in length for a foot.

Example. A piece of timber being 8 inches square, that 8 multiplied in it self makes 64, by which if you divide 1728, the quotient will be 27, which shews that when the piece is 8 inches square, 27 inches in length will make a foot square, that is a foot of timber.

But for the more easie measuring of timber, see the table that follows, wherein is shewed how much in length will make a foot of any square, for every inch, quarter, and half quarters of inches, from 3 inches to 24.

A table for the measuring of square timber.

Square	0 Inches		12 ½ 0		25 1 quar.		37 ½ 0		50 half in		62 ½ 0		75 3 quar		87 ½ 0	
	foot	inc	foot	inc.	foot	inc	foot	inc	foot	inc	foot	inc.	foot	inc.	foot	inc.
3	16	00	14	9	13	7	12	7	11	9	10	11	10	3	9	7
4	9	0	8	6	8	0	7	6	7	1	6	9	6	5	6	1
	inc.	par.	inc.	par.	inc.	par.	inc.	par	inc.	par.	inc.	par.	inc.	par	inc.	par.
5	69	12	65	79	62	70	59	82	57	13	54	62	52	27	50	7
6	48	0	47	6	44	23	42	52	40	90	39	38	37	93	36	56
7	35	27	34	4	32	88	31	77	30	72	29	72	28	77	27	88
8	27	0	26	18	25	39	24	64	23	92	23	23	22	57	21	94
9	21	34	20	75	20	20	19	66	19	15	18	65	18	18	17	72
10	17	28	16	86	16	45	16	6	15	68	15	31	14	96	14	61
11	14	28	13	96	13	65	13	36	13	7	12	78	12	51	12	25
12	12	0	11	76	11	52	11	29	11	6	10	85	10	64	10	53
13	10	22	10	4	9	85	9	66	9	48	9	31	9	14	8	98
14	8	82	8	66	8	51	8	36	8	22	8	8	7	95	7	82
15	7	69	7	56	7	44	7	31	7	19	7	7	6	96	6	86
16	5	75	6	65	6	55	6	45	6	35	6	25	6	16	6	7
17	5	98	5	89	5	80	5	72	5	64	5	56	5	49	5	41
18	5	34	5	26	5	19	5	12	5	5	4	98	4	92	4	85
19	4	79	4	72	4	66	4	60	4	54	4	48	4	43	4	37
20	4	32	4	26	4	20	4	16	4	11	4	6	4	1	3	96
21	3	91	3	86	3	82	3	77	3	73	3	69	3	65	3	61
22	3	57	3	53	3	49	3	45	3	41	3	37	3	34	3	30
23	3	27	3	23	3	20	3	16	3	13	3	9	3	6	3	3
24	3	0														

The use of this table.

FInde the number of inches which is the square of your piece on the left hand of the table, under the title of Square: and in the next columne you have your length desired, if the square of your piece be even inches; but if the square of your piece which is to be measured be inches and quarters, or inches, quarters, and half quarters, then (as before) finde the inches on the left hand of the table, right against which towards the right hand proceed untill you come under the other parts of your square, and you have your length desired. 100 parts make one inch. Exam-

Example, when the piece of timber is 3 inches square, then 16 foot in length makes a foot, 3 inch. and half a quarter square, then 14 foot and 9 inch. in length makes a foot, 3 inch. & a half square, then 11 foot 9 inches, &c.

Likewise, when the piece of timber is 8 inch. square, then 27 inch. in length make a foot: when the piece is 8 inch. and half a quarter square, then 26 inch. and 18 parts make a foot: if the piece be 8 inch. and a quarter square, then 24 inch. and 64 parts makes a foot; and thus of the rest: & thus much for measuring of square timber.

For the measuring of round timber, the way commonly used, is to gird the logge or piece of timber about with a string, and the fourth part is taken for the true square: as if the ingirding of a logge be 24 inch. about, 6 inch. is taken for the true square, which is a fourth part thereof, and so by the tables beforegoing 4 foot in length should make a foot square.

But the true way for measuring of round timber, is to multiply half the circumference by half the diameter, and by that product divide 1728, and the quotient will shew how many inches in length make a foot: but because the diameter is the $\frac{7}{22}$ part of the circumference, and so likewise of the half diameter, and half circumference, this way may seem somewhat too tedious to be used, therefore for the finding of the true square with more ease, observe the rule that follows.

First, note that a fourth part or quarter of ingirding of any round timber, is in such proportion to its true square, as 10000 is to 11282: therefore multiply 11282, by a fourth part of the ingirding (of any round timber) and that product divided by 10000, that is but onely by cutting off the first 4 figures towards the right hand, them that are left towards the left hand shall shew the inches, and them cut off shall shew the parts of inches, which shall be the true square; which may be measured by the table beforegoing.

Example, Let the ingirding of a piece of round timber be 24 inches about, a fourth part or quarter is 6 inch. by which 6 multiply the said 11282, and the product will be 67692, which divided by 10000, the quotient will be $6\frac{7692}{10000}$: but omitting the first two figures of the numerator of the fraction (namely 92) and also the first two ciphers of the denominator as not necessarie to be used, being but of small value, the fraction remaining will be 76 parts of an hundred, so shall the true square be found to be 6 inches and somewhat more then 3 quarters.

Now to know how much in length for a foot, finde the said 76 on the head of the table beforegoing, or for want of it, the nearest unto it lesse then it (for we alwayes give advantage to the timber) which there is 75, that is for 3 quarters of an inch: under which 75, against 6, in their angle or place of meeting, are 37 inch. and 93 parts, that is almost 38 inch. and so much in length makes a foot, when the piece of timber is 24 inches about, which is the true way, differing from the former (which is the way commonly used) more then 10 inch. And this is a generall rule when the ingirding may be divided by 4, and nothing remaining.

But suppose the piece of timber to be 34 inches about, which number cannot be divided by 4, therefore we cannot take a fourth part otherwise, then for them 34 inch. to take 34 quart. of inch. by which number multiply the aforesaid number 11282, and the product will be 383588, which divided by 10000, the quotient will be $38\frac{3588}{10000}$, that is 38 quarters of inches (the fraction will not give half a quarter except the numerator were 5000) which reduced to inches and quarters, the true square will be 9 inch. and a half; for which square according to the directions beforegoing, you shall finde by the table 19 inch. and 15 parts in length to make a foot. And thus may you measure exactly any round timber.

¶ A neceſſary table which (being cut out of the book) may be ſet up in any Church: wherein is ſhewed all the Sundayes and holy-dayes, fixt and moveable feaſts, upon what day of the moneth any of them fall, 1636.

day	*January.*
1	Circumciſion
3	2. Sun. af. Chr
6	Epiphanie.
10	1. S. aft. Epiph.
17	2. S. aft. Epip.
24	3 S. aft. Epiph
31	4 S. aft. Epiph
day	*February*
2	Purification
7	5 S. aft. Epiph.
14	Septuageſim.
21	Sexageſima
25	Matthias ap.
28	Shroveſunday
day	*March*
6	Quadrageſim
13	2. Sun. in lent
20	3. S. in lent.
25	Annunciatiõ
27	4. S. in lent
day	*April*
3	5. S. in lent
10	6 S. in lent
17	Eaſter-day
24	Lowſunday
25	Mark evang.
day	*May*
1	2. S. aft. Eaſter Philip & Jam.
8	3. S. aft. Eaſter
15	4. S. aft. Eaſter
22	5. S. aft. Eaſter
26	Aſcenſion day
29	6. Sun. aft. Eaſt.
day	*June*
5	Whitſunday
12	Trinity ſund.
19	1. S. aft. Trinity
24	John Baptiſt
26	2. S. aft. Trin.
29	Peter apoſt.
day	*July*
3	3. S. aft. Trin
10	4. S. aft. Trin.
17	5. S. aft. Trin.
24	6. S. aft. Trin.
25	James apoſtle
31	7. S. aft Trin.
day	*Auguſt*
7	8 S. aft. Trin.
14	9. S. aft Trin.
21	10. S. aft. Trin.
24	Bartholomew
28	11. S. aft. Trin
day	*September.*
4	12. S. aft. Trin.
11	13. S. aft. Trin.
18	14. S. aft. Trin.
21	Matthew ap.
25	15. Sun. aft. Tr.
29	Michael arch.
day	*October.*
2	16. S. aft. Tr.
9	17. S. aft. Tr.
16	18. S. aft. Trin
18	Luke Evang.
23	19. S. aft. Tr.
28	Simon & Jud
30	20. Sun. af. Tr.
day	*November.*
1	All Saints.
6	21. Sun. aft. Tr.
13	22. Sun. af. Tr.
20	23. S. aft. Tr.
27	Advent Sund.
30	Andrew ap.
day	*December.*
4	2. Sun. in Adv.
11	3. Sun. in Adv.
18	4. S. in Adv.
21	Thom. ap.
25	Chriſtmas day
26	S. Stephen.
27	S. John Evan.
28	Innocents.

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